

INFORMATION DISCLOSURE CITATION

Sheet 1 of 1

Applicant: Kenneth H. Falchuk

Filing Date: November 13, 2001

Group: 1646/651

U.S. PATENT DOCUMENTS

Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
SMF	AA 5,635,533	06/03/97	Samid	514	538	06/06/95
SMF	AB 5,849,777	12/15/98	Scallen et al.	514	400	06/01/95
SMF	AC 6,066,618	05/23/00	Holick	514	12	11/13/98
SMF	AD 6,174,905	01/16/01	Suzuki et al.	514	346	09/26/97
SMF	AE 6,242,471	06/05/01	Yasuma et al.	514	375	04/28/00
	AF					
	AG					
	AH					
	AI					
	AJ					

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation	
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	AL							
	AM							
	AN							
	AO							
	AP							

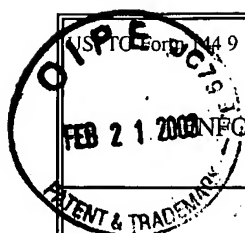
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER

DATE CONSIDERED 12/2/03

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USPTO Form 1449	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 10498-00028	Serial No. 10/008,356
INFORMATION DISCLOSURE CITATION Sheet 1 of 10		Applicant: Kenneth H. Falchuk	
		Filing Date: November 13, 2001	Group: 1646-1651

U.S. PATENT DOCUMENTS

Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	AA	5,229,500	07/20/93	Barde et al.	520 514	399 12	08/20/90
	AB						
	AC						
	AD						
	AE						
	AF						

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FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation	
							YES	NO
SMA	AG	WO 93/09229	05/13/93	PCT ✓				
SMA	AH	WO 95/18856	07/13/95	PCT ✓				
SMA	AI	WO 96/17924	06/13/96	PCT ✓				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

SMA	AJ	Anderson et al., "The structural basis of lipid interactions in lipovitellin, a soluble lipoprotein," <i>Structure</i> , 6(7):895-909, 1998 ✓					
SMA	AK	Bjeldanes et al., "Aromatic hydrocarbon responsiveness-receptor agonists generated from indole-3-carbinol <i>in vitro</i> and <i>in vivo</i> : comparisons with 2,3,7,8-tetrachlorodibenzo-p-dioxin," <i>Proc. Nat'l. Acad. Sci., USA</i> , 88:9543-9547, 1991 ✓					
SMA	AL	Blauer and Wagniere, "Conformation of Bilirubin and Biliverdin in Their Complexes with Serum Albumin," <i>Am. Chem. Soc.</i> , 97(7):1949-1954, 1975 ✓					
SMA	AM	Bligh and Dyer, "A Rapid Method of Total Lipid Extraction and Purification," <i>Canadian J. of Biochem. and Phys.</i> , 37:911-917, 1959 ✓					
SMA	AN	Brand-Saberi et al., "The ventralizing effect of the notochord on somite differentiation in chick embryos," <i>Anat. Embryol.</i> , 188:239-245, 1993 ✓					
SMA	AO	Byrne, "The Evolution of Egg Yolk Proteins," <i>Prog. Biophys. Mol. Biol.</i> , 53:33-69, 1989 ✓					
SMA	AP	Carr et al., "The Variable Transformation in Metastases from Testicular Germ Cell Tumors: The Need for Selective Biopsy," <i>J. Urol.</i> , 126:52 - 54, 1981 ✓					

EXAMINER <i>A. Hanley</i>	DATE CONSIDERED <i>12/2/03</i>
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U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No. 10498-00028

Serial No. 10/008,356

INFORMATIONAL CLOSURE CITATION

Sheet 2 of 10

Applicant: Kenneth H. Falchuk

Filing Date: November 13, 2001

Group: 1646/651

U.S. PATENT DOCUMENTS

Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	BA					

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation	
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	BB						

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

SMH	BC	Chen et al., "Human Breast Cancer Cells and Normal Mammary Epithelial Cells:...." <i>Cancer Res.</i> , 57:4642-4651, 1997	✓
SMH	BD	Collins et al., "Terminal Differentiation of Human Promyelocytic Leukemia Cells Induced by Dimethyl Sulfoxide and other Polar Compounds," <i>Proc. Natl. Acad. Sci. USA</i> , 75: 2458 - 2462, 1978.	✓
SMH	BE	Danilchik and Gerhart, "Differentiation of the Animal-Vegetal Axis in <i>Xenopus laevis</i> Oocytes....," <i>Dev. Biol.</i> , 122:101-112, 1987	✓
SMH	BF	Davidson, "How embryos work: a comparative view of diverse modes of cell fate specification," <i>Development</i> , 108:365-389, 1990	✓
SMH	BG	Dexter DL, "NN-Dimethylformamide-induced Morphological Differentiation and Reduction of Tumorigenicity in Cultured Mouse Rhabdomyosarcoma Cells," <i>Cancer Res.</i> 37:3136-3140 (1977)	✓
SMH	BH	Dolphin et al., "Studies on the Induction and Biosynthesis of Vitellogenin, an Oestrogen-Induced Glycolipophosphoprotein, <i>Biochem. J.</i> , 124:751-758, 1971	✓
SMH	BI	Donehower et al., "Nedd Deficient for p53 Are Developmentally Normal but Susceptible to Spontaneous Tumors," <i>Nature</i> 356: 215-221, 1992	✓
SMH	BJ	Donehower, "The p53-deficient Mouse: A model for basic and applied cancer studies," <i>Cancer Biol.</i> 7:269-278, 1996	✓
SMH	BK	Dumont, "Oogenesis in <i>Xenopus laevis</i> . . .," <i>J. Morphol.</i> , 136:153-179, 1972	✓
SMH	BL	Ezquieta and Vallejo, "Lipovitellin Inhibition of <i>Artemia</i> Trypsin-Like Proteinase: . . .," <i>Arch. Biochem. Biophys.</i> , 250(2):410-417, 1986	✓
SMH	BM	Fagotto and Gumbiner, "β-catenin localization during <i>Xenopus</i> embryogenesis: . . .," <i>Development</i> , 120:3667-3679, 1994	✓
SMH	BN	Fainsod, Steinbeisser and Robertis, "On the function of <i>BMP-4</i> in patterning the marginal zone of the <i>Xenopus</i> embryo, <i>EMBO J.</i> , 13(21)5015-5025, 1994	✓

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USPTO Form 1449

U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No. 10498-00028

Serial No. 10/008,356

INFORMATION DISCLOSURE CITATION

Sheet 3 of 10

Applicant: **Kenneth H. Falchuk**Filing Date: **November 13, 2001**Group: **1646/1651**

U.S. PATENT DOCUMENTS

Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	CA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation	
							YES	NO
	CB							

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

SMT	CC	Falchuk et al., "Zinc Uptake and Distribution in <i>Xenopus laevis</i> Oocytes and Embryos," <i>Biochemistry</i> 34:16524-16531, 1995	✓
SMT	CD	Fearon et al., "Differentiation of Leukemia Cells to Polymorphonuclear Leukocytes in Patients with Acute Nonlymphocytic Leukemia," <i>N. Eng. J. Med.</i> 315:15-24, 1986	✓
SMT	CE	Fibach et al., "Effect of Hexamethylene bis acetarnide on the Commitment to Differentiation of Murine Erythro Cells," <i>Cancer Res.</i> , 37:440-444, 1977	✓
SMT	CF	Freed et al., "Neocartilage formation <i>in vitro</i> and <i>in vivo</i> using cells cultured on synthetic biodegradable polymers," <i>J. Biomed. Mater. Res.</i> 27:11-23 (1993)	✓
SMT	CG	Friend et al., "Hemoglobin Synthesis in Murine Virus Induced Leukemia Cells <i>In Vitro</i> : Stimulation of Erythroid Differentiation by Dimethyl Sulfoxide," <i>Proc. Natl. Acad. Sci. USA</i> , 69:378-382, 1971	✓
SMT	CH	Gamet et al., "Effects of Short-Chain Fatty Acids on Growth and Differentiation of the Human Colon-Cancer Cell Line HT29," <i>Int. J. Cancer</i> , 52:286-289, 1992	✓
SMT	CI	Gasiewicz and Rucci, "α-Naphthoflavone Acts as an Antagonist of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin by Forming an Inactive Complex with the Ah Receptor," <i>Mol. Pharmacol.</i> , 40:607-612, 1991	✓
SMT	CJ	Grande et al., "The Repair of Experimentally Produced Defects in Rabbit Articular Cartilage by Autologous Chondrocyte Transplantation," <i>J. Orthop. Res.</i> , 7:208-218 (1989)	✓
	CK	Grubbs et al., "Inhibition of Mammary Cancer by Retinyl Methyl Ether," <i>Cancer Res.</i> 37:599-602, 1977	
SMT	CL	Gum et al., "Effect of Sodium Butyrate on Human Colonic Adenocarcinoma Cells: Induction of Placental-like Alkaline Phosphatase," <i>J. Biol. Chem.</i> , 262:1092-1097, 1987	✓
SMT	CM	Gurdon, "The Generation of Diversity and Pattern in Animal Development," <i>Cell</i> , 68:185-199, 1992	✓
SMT	CN	Hausen and Riebesell, <i>The Early Development of Xenopus laevis</i> . Springer-Verlag, Berlin Heidelberg New York. Plates 7-10, 1991	✓
	CO		

EXAMINER

DATE CONSIDERED 12/3/03

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INFORMATION DISCLOSURE CITATION

Part 4 of 10

Applicant: Kenneth H. Falchuk

Filing Date: November 13, 2001

Group: 1646/657

U.S. PATENT DOCUMENTS

Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	DA					

FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

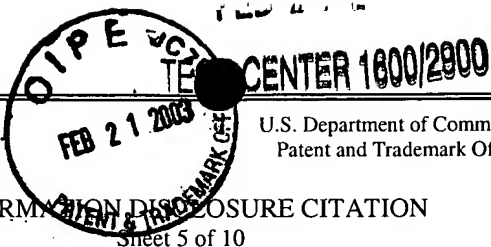
SMH	DC	Heyman et al., "9-Cis Retinoic Acid Is a High Affinity Ligand for the Retinoid X Receptor." <i>Cell</i> , 68:397-406, 1992	✓
SMH	DD	Huberman et al., "Induction of terminal differentiation in human promyelocytic leukemia cells by tumor promoting agents," <i>Proc. Natl. Acad. Sci. USA</i> , 76(3):1293-1297, 1971	✓
SMH	DE	Ishizawa et al., "Induction of Heme Oxygenase in Rat Liver," <i>J. Biol. Chem.</i> , 258(7):4220-4225, 1983	✓
SMH	DF	James et al., "The Role of Vitamin D Derivatives and Retinoids in the Differentiation of Human Leukaemia Cells," <i>Biochem. Pharmacol.</i> , 54:625-634, 1997	✓
SMH	DG	Jellinck et al., "Ah Receptor Binding Properties of Indole Carbinols and Induction of Hepatic Estradiol Hydroxylation," <i>Biochem. Pharmacol.</i> , 45(5):1129-1136, 1993	✓
SMH	DH	Jessell et al., "Diffusible Factors in Vertebrate Embryonic Induction," <i>Cell</i> 68: 257-270, 1992	✓
SMH	DI	Jones et al., "DVR-4 (Bone Morphogenetic Protein-4) as a posterior-ventralizing factor in <i>Xenopus</i> mesoderm induction," <i>Development</i> , 115:639-647, 1991	✓
SMH	DJ	King and Brown, "The Mechanism of Haem Catabolism," <i>J. Biochem.</i> , 174:103-109, 1978	✓
SMH	DK	Kleman et al., "Regulation of Human Dioxin Receptor Function by Indolocarbazoles, Receptor Ligands of Dietary Origin," <i>J. Biol. Chem.</i> , 269(7):5137-5144, 1994	✓
SMH	DL	La Fleur et al., " <i>Fundulus heteroclitus</i> Vitellogenin: . . .," <i>J. Mol. Evol.</i> , 41:505-521, 1995	✓
SMH	DM	Lagueux et al., "Ecdysteroids Are Bound to Vitellin Newly Laid Eggs of <i>Locusta</i> ," <i>Mol. Cell. Endocrin.</i> , 24:325-338, 1981	✓
SMH	DN	Landers and Bunce, "The Ah receptor and the mechanism of dioxin toxicity," <i>Biochem J.</i> , 276:273-287, 1991	✓
SMH	DO	Lange et al., "Lipovitellin-Phosvitin Crystals with Orthorhombic Features: . . .," <i>J. Ultrastruct. Res.</i> , 83:122-140, 1983	✓

EXAMINER

DATE CONSIDERED

12/3/03

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U.S. Department of Commerce
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Attorney Docket No. 10498-00028

Serial No. 10/008,356

INFORMATION DISCLOSURE CITATION

Sheet 5 of 10

Applicant: Kenneth H. Falchuk

Filing Date: November 13, 2001

Group: 1646/69

U.S. PATENT DOCUMENTS

Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
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FOREIGN PATENT DOCUMENTS

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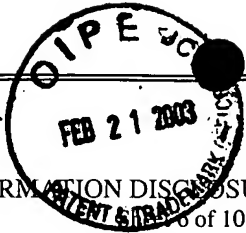
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

SMH	EC	Leid et al., "Multiplicity Generates Diversity in the Retinoic Acid Signaling Pathways," <i>TIBS</i> , 427-433, 1992	✓
SMH	ED	Leonard et al., "Amphibian Yolk Platelet Ultrastructure Visualized by Freeze-Etching," <i>J. Ultrastruct. Res.</i> , 40:1-24, 1972	✓
SMH	EE	Lewis et al., "Morphological and Biochemical Changes in the Hepatic Endoplasmic Reticulum . . .," <i>Mol. and Cell. Endocrin.</i> , 4:311-329, 1976	✓
	EF	Lightner et al., "On the Acid Dissociation Constants of Bilirubin and Biliverdin," <i>J. Biol. Chem.</i> , 271(5):2397-2405, 1996. <i>paper not present</i>	
SMH	EG	Lu et al., "Identification of 3'-Methoxy-4'-nitroflavone as a Pure Aryl Hydrocarbon (Ah) Receptor. . .," <i>Arch. Biochem. Biophys.</i> , 316(1):470-477, 1995	✓
SMH	EH	Ma et al., "Protein Tyrosine Phosphorylation as an Indicator of 2,3,7,8-Tetrachloro-p-Dioxin Exposure <i>In Vivo</i> and <i>In Vitro</i> ," <i>Biochem. Biophys. Res. Commun.</i> , 189(1):59-65, 1992	✓
SMH	EI	Ma and Babish, "Acute 2,3,7,8-Tetrachlorodibenzo-p-Dioxin Exposure Results in Enhanced Tyrosylphosphorylation . . .," <i>Biochem. and Biophys. Res. Commun.</i> , 197(3):1070-1077, 1993	✓
	EJ	Marko et al., "Nuclear magnetic resonance investigations of the biliverdin-apomyoglobin-complex," <i>Eur. J. Biochem.</i> , 193:573-580, 1990. <i>paper not present</i>	
SMH	EK	Marks et al., "Induction of Transformed Cells to Terminal Differentiation and the Modulation of Gene Expression," <i>Cancer Res.</i> , 47:659 - 666, 1987	✓
SMH	EL	Merchant and Safe, "In Vitro Inhibition of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin-Induced Activity by α -naphthoflavone . . .," <i>Biochem. Pharmacol.</i> , 50(5):663-668, 1995	✓
SMH	EM	Mintz and Ilmensee, "Normal genetically mosaic mice produced from malignant teratocarcinoma cells," <i>Proc. Natl. Acad. Sci. USA</i> , 72(9):3585-3589, 1975	✓
SMH	EN	Montorzi et al., "Xenopus laevis Vitellogenin Is a Zinc Protein," <i>Biochem. Biophys. Res. Commun.</i> , 200(3):1407-1413, 1994	✓

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FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation
						YES NO
FB						

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

SM7	FC	Montorzi et al., "Vitellogenin and Lipovitellin: Zinc Proteins of <i>Xenopus laevis</i> Oocytes," <i>Biochemistry</i> , 34:10851-10858, 1995	✓
SMH	FD	Morikawa et al., "Influence of Organ Environment on the Growth, Selection, and Metastasis of Human Colon Carcinoma Cells in Nude Mice," <i>Cancer Res.</i> 48:6863-6871, 1988	✓
SMH	FE	Mueller et al., "Terminal Differentiation of Human Breast Cancer through PPAR γ ," <i>Mol. Cell</i> , 1:465-470, 1998	✓
SMH	FF	Nomizu et al., "Zinc, Iron and Copper Contents of <i>Xenopus laevis</i> oocyte and Embryos," <i>Mol. Reprod. Develop.</i> , 36:419-423, 1993	✓
SMH	FG	Ockner et al., "Hepatic uptake of albumin-bound substances: . . .," <i>Am. J. Physiol.</i> , 245(1):G13-G18, 1983	✓
SMH	FH	Ohlendorf et al., "Lipid and Polypeptide Components of the Crystalline Yolk System from <i>Xenopus laevis</i> ," <i>J. Biol. Chem.</i> , 252(22):7922-8001, 1977	✓
SMH	FI	Ohlendorf et al., "Three-dimensional structure of the lipovitellin-phosvitin complex from amphibian oocytes," 272:28-32, 1978	✓
SMH	FJ	Olson et al., "A Monoclonal Antibody to Human Antiogenin Suppresses Tumor Growth in Athymic Mice," <i>Cancer Research</i> , 54:4576-4579, 1994	✓
SMH	FK	Opresko and Wiley, "Receptor-Mediated Endocytosis in <i>Xenopus</i> Oocytes. I. Characterization of the Vitellogenin Receptor System," <i>J. Biol. Chem.</i> , 262(5):4109-4115, 1987	✓
SMH	FL	Opresko and Wiley, "Receptor-Mediated Endocytosis in <i>Xenopus</i> Oocytes. II. Evidence for Two Novel Mechanisms of Hormonal Regulation," <i>J. Biol. Chem.</i> , 262(5):4116-4123, 1987	✓
	FM	Peitsch and Boguski, "Is Apolipoprotein D a Mammalian Bilin-Binding Protein?" <i>New Biologist</i> , 2:197-206, 1990 paper not present	
SMH	FN	Perdew and Hollenback, "Analysis of Photoaffinity-Labeled Aryl Hydrocarbon Receptor Heterogeneity by Two-Dimensional Gel Electrophoresis," <i>Biochemistry</i> , 29(26):6210-6214, 1990	✓

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Sheet 7 of 10

Applicant: Kenneth H. Falchuk

Filing Date: November 13, 2001

Group: 1646/65

U.S. PATENT DOCUMENTS

Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
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FOREIGN PATENT DOCUMENTS

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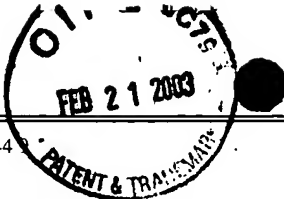
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SMH	GC	Pfhal, "Retinoids: Concepts for Separation of Desirable and Undesirable Effects in the Treatment or Prevention of Cancer," <i>Hormones and Cancer</i> . Ed. Vederlds, Birkhauser, Boston. pp. 127-146, 1996	✓
SMH	GD	Phelan et al., "Activation of the Ah Receptor Signal Transduction Pathway by Bilirubin and Biliverdin," <i>Archives of Biochemistry and Biophysics</i> , 357:155-163, 1998	
SMH	GE	Pierce and Speers, "Tumors as Caricatures of the Process of Tissue Renewal: Prospects for Therapy by Directing Differentiation," <i>Cancer Res.</i> , 48:1996-2004, 1988	✓
SMH	GF	Placzek et al., "Orientation of commissural axons <i>in vitro</i> in response to a floor plate-derived chemoattractant," <i>Development</i> , 110:19-30, 1990	✓
SMH	GG	Placzek et al., "Induction of floor plate differentiation by contact-dependent, homeogenetic signals," <i>Development</i> , 117:205-218, 1993	✓
SMH	GH	Poland et al., "Stereospecific, High Affinity Binding of 2,3,7,8-Tetrachlorodibenzo- <i>p</i> -dioxin by Hepatic Cytosol. . .," <i>J. Biol. Chem.</i> , 251(16):4936-4946, 1976	✓
SMH	GI	Porquie et al., "Control of dorsoventral patterning of somitic derivatives by notochord and floor plate," <i>Proc. Natl. Acad. Sci. USA</i> , 90:5242-5246 (1993)	✓
SMH	GJ	Preflow et al., "Transplantation of Human Prostatic Carcinoma into Nude Mice in Matrigel," <i>Cancer Res.</i> , 51:3814-3817, 1991	✓
SMH	GK	Redshaw and Follett, "The Crystalline Yolk-Platelet Proteins and their Soluble Plasma Precursor in an Amphibian, <i>Xenopus laevis</i> ," <i>Biochem. J.</i> , 124:759-766, 1971	✓
SMH	GL	Sarraf et al., "Differentiation and reversal of malignant changes in colon cancer through PPAR γ ," <i>Nature Medicine</i> , 4:1046-1052, 1998	✓
SMH	GM	Saunders and Gasseling, "Ectodermal-Mesodermal Interactions in the Origin of Limb Symmetry," <i>Epithelial-Mesenchymal Interaction</i> , Eds. Fleischmajer and Billingham, Williams and Wilkins, Baltimore, MD., Chapter 5, pp. 78-97, 1968	✓

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INFORMATION DISCLOSURE CITATION Sheet 8 of 10				Applicant: Kenneth H. Falchuk			
				Filing Date: November 13, 2001		Group: 1646/167	
U.S. PATENT DOCUMENTS							
Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
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Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation YES NO
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)							
SMH	HC	Saxen, "Neural induction," <i>Int. J. Dev. Biol.</i> , 33:21-48, 1989 ✓					
	HD	Schmid and McDonagh, "The Enzymatic Formation of Bilirubin," <i>Ann. N.Y. Acad. Sci.</i> , 244:533-552, (Review) 1975 <i>paper not present</i>					
SMH	HE	Schubert et al., "Induced Differentiation of a Neuroblastoma," <i>Dev. Biol.</i> , 25:514-546, 1971 ✓					
	HF	Schwartz et al., "Sodium butyrate induces retinoblastoma protein dephosphorylation, p16 expression and growth arrest of colon cancer cells," <i>Mol. & Cell Biochem.</i> , 188:21-30, 1993 <i>paper not present</i>					
SMH	HG	Seifried and Gaylor, "Investigation of Microsomal Oxygenases of Biosynthetic Processes," <i>J. Biol. Chem.</i> , 251(23):7468-7473, 1976 ✓					
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Applicant: Kenneth H. Falchuk

Filing Date: November 13, 2001

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	IA						

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							YES	NO
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Sheet **1** of 10Applicant: **Kenneth H. Falchuk**Filing Date: **November 13, 2001**Group: **1646/67**

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JA						

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Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation	
						YES	NO
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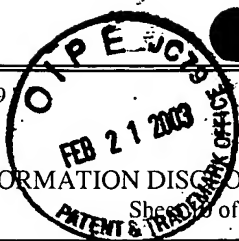
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Applicant: Kenneth H. Falchuk

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Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	AA						

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							YES	NO
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